

TO: FROM: INFO: SIGNATURE:

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USNRC: JDLAFLEUR  
4/4/79: 492-7131  
OES/NET/IM: DHCOOPER

EUR/RPE: WBARMON {INFO}  
NEA/RA: HENGBRECHT {INFO}  
IO/SCI: AJILLSON {INFO}

EA/RA: PCLEVELAND {INFO}  
ARA: GJONES/JHENNEKE {INFO}  
L/N: RJBETTAUER {INFO}

IMMEDIATE ATHENS, BERN IMMEDIATE, BOMBAY IMMEDIATE, BONN IMMEDIATE, BRASILIA IMMEDIATE, BRUSSELS IMMEDIATE, BUENOS AIRES IMMEDIATE,

USIAEA, USOEC, USEEC, - PASS TO PARA 1 PARTIES ASAP

E.O. 11652: N/A

TAGS: TECH,

SUBJECT: THREE MILE ISLAND REACTOR STATUS

REF: A-0221

1. ADDRESSEES REQUESTED TO PASS FOLLOWING INFORMATION TO OFFICIAL NRC CONTACTS IN HOST GOVERNMENTS AND TO VISITING SENIOR U.S. OFFICIALS, ASAP, DURING DAYLIGHT HOURS, AND TO USE AS APPROPRIATE IN ANSWERING INQUIRIES. PLEASE NOTE THIS INFORMATION IS PRELIMINARY AND NOT FULLY EVALUATED.

2. PLANT STATUS AS OF 7 AM, APRIL 4.

A. THE COOLING PATH TO REMOVE CORE DECAY HEAT CONTINUES TO BE THROUGH "A" STEAM GENERATOR TO THE MAIN CONDENSER.

B. REACTOR PRESSURE REMAINS NEAR 1000 PSI, WITH BULK CORE COOLANT INLET AND OUTLET TEMPERATURES AT 280 DEGREES F. CORE THERMOCOUPLE READINGS ARE RELATIVELY UNCHANGED AND INDICATE A MAXIMUM TEMPERATURE OF 466 DEGREES F WHICH IS WELL BELOW SATURATION TEMPERATURE FOR THIS PRESSURE. {ONLY THREE THERMOCOUPLES READ ABOVE 400 DEGREES F.}

GAS IS STILL INDICATED TO BE PRESENT BASED ON BUBBLE SIZE CALCULATIONS, BUT ITS VOLUME IS ERRATIC INDICATING THE EFFECTS OF SOLUBILITY AND BUBBLE DISPERSION. VENT VALVE ON PRESSURIZER HAS BEEN CLOSED AND DEGASIFICATION CONTINUES;

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THROUGH THE LETDOWN SYSTEM.

C. CONTAINMENT ATMOSPHERE MEASUREMENTS INDICATE ABOUT 2.1% HYDROGEN. ONE HYDROGEN RECOMBINER IS OPERATING AND AN 11-DAY TIME PERIOD IS PROJECTED FOR REDUCTION OF THE HYDROGEN CONCENTRATION TO ABOUT 1%. AT 1430 ON APRIL 3, ONE OF THREE PRESSURIZER LEVEL TRANSMITTERS FAILED. ALTERNATE METHODS OF LEVEL MEASUREMENTS ARE BEING DEVELOPED AND PROCEDURES REVIEWED FOR IMPLEMENTATION WHILE CALIBRATION CAN OCCUR WITH THE EXISTING DETECTORS.

D. PLANS TO USE A ROBOT DEVICE TO OBTAIN A PRIMARY COOLANT SAMPLE ARE BEING EVALUATED. PREOP TESTING WITH THE ROBOT IS IN PROGRESS.

E. THE TESTS OF CONTAINMENT BUILDING GAS SAMPLE REPORTED FOR APRIL 3 HAVE BEEN DETERMINED TO BE FAULTY AND SHOULD BE DISREGARDED. NEW SAMPLES ARE BEING ANALYZED.

### 3. ENVIRONMENTAL STATUS

A. FDA HAS REANALYZED THE RIVER WATER SAMPLE COLLECTED THE AFTERNOON OF APRIL 2, 1979 AT A LOCATION 2 MILES DOWNSTREAM. THE VALUE OF 39 PICOCURIES PER LITER IODINE-131 PREVIOUSLY REPORTED FOR THIS SAMPLE HAS BEEN FOUND TO BE INCORRECT; NO IODINE ABOVE MINIMUM DETECTABLE LEVELS HAS BEEN FOUND.

B. OTHER ENVIRONMENTAL MEASUREMENTS INDICATE A CONTINUATION OF THE TREND OF GRADUAL REDUCTION OF THE REMAINING LOW RADIATION LEVELS CAUSED BY THE INCIDENT. ♣♣

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ACTION PRECEDENCE CONTINUED:

IMMEDIATE COPENHAGEN  
IMMEDIATE HELSINKI  
IMMEDIATE LONDON  
IMMEDIATE MADRID  
IMMEDIATE MANILA  
IMMEDIATE MEXICO CITY  
IMMEDIATE NEW DELHI  
IMMEDIATE PARIS  
IMMEDIATE RIO DE JANEIRO  
IMMEDIATE ROME  
IMMEDIATE SEOUL  
IMMEDIATE STOCKHOLM  
IMMEDIATE TEHRAN  
IMMEDIATE TEL AVIV  
IMMEDIATE THE HAGUE  
IMMEDIATE TOKYO  
IMMEDIATE VIENNA

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